	Application No.	Applicant(s)	
Notice of Allowability			
	09/813,896 Examiner	MODHA ET AL. Art Unit	
	Uyen T. Le	2163	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm GHTS. This application is	n this application. If not included unication will be mailed in due course	
1. This communication is responsive to <u>applicant's amendme</u>	nt filed 30 December 2004		
2. The allowed claim(s) is/are <u>1-13,15-20,22-26 renumbered</u>	<u>as 1-24</u> .		
3. \boxtimes The drawings filed on <u>30 August 2004</u> are accepted by the	Examiner.		
 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Applicati	on No	m the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to fill IENT of this application.	e a reply complying with the requireme	ents
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXes reason(s) why the oath o	AMINER'S AMENDMENT or NOTICE or declaration is deficient.	OF
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) 🗌 including changes required by the Notice of Draftspers	on's Patent Drawing Revie	w (PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on he header according to 37 C	the drawings in the front (not the back) of	of
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT.	sit of BIOLOGICAL MAT	ERIAL must be submitted. Note the	e
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		nformal Patent Application (PTO-152)	
	o. ال interview s Paper No	Summary (PTO-413), /Mail Date s Amendment/Comment	
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 			
4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allowance	
of Biological Material	9. 🗌 Other	_·	
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DETAILED ACTION

Allowable Subject Matter

1. Claims 1-13, 15-20, 22-26 renumbered as 1-24 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art of record does not disclose or make obvious evaluating and outputting a final clustering solution for a plurality of multi-dimensional data records having multiple heterogeneous feature spaces represented by feature vectors including defining a distortion between two feature vectors as a weighted sym of distortion measures on components of said feature vectors, clustering said multi-dimensional data records into k-clusters using a convex programming formulation and:

- selecting feature weights of said feature vectors and minimizing distortion of kclusters as recited in claim 1;
- selecting optimal feature weights by an objective function to produce a final solution of final clustering that simultaneously minimizes average intra-cluster dispersion and maximizes average inter-dispersion along all of said heterogeneous feature spaces as recited in claims 8, 13, 20;
- Claims 2-7, 9-12, 15-19, 22-26 being further limiting and definite are also allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Uyen T. Le whose telephone number is 571-272-4021. The examiner can normally be reached on M-F 7:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic can be reached on 571-272-4023. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

3. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

14 April 2005

UYEN LE PRIMARY EXAMINER